Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Navy

R-1 ITEM NOMENCLATURE

1319: Research, Development, Test & Evaluation, Navy

PE 0604703N: Personnel, Trng, Sim, & Human Factors

DATE: February 2012

BA 5: Development & Demonstration (SDD)

APPROPRIATION/BUDGET ACTIVITY

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	10.098	12.992	7.348	-	7.348	7.514	7.669	7.793	7.926	Continuing	Continuing
1822: Manpower Pers & Human Fact System	10.098	12.992	7.348	-	7.348	7.514	7.669	7.793	7.926	Continuing	Continuing

A. Mission Description and Budget Item Justification

This non-acquisition category program provides funds for continued (but less risky) R&D for broader application of advanced technologies to transition successful research proof-of-concept demonstrations into operational use. Development of prototype systems to support and/or improve operational requirements of manpower and personnel sponsors is the primary goal of this Engineering Development Program. The R&D Program features the use of a broad range of technologies from cognitive science, human systems integration, learning management, content management & delivery, learning and ability testing techniques, mathematical modeling and optimization, statistical and econometric forecasting, intelligent systems, data visualization, data mining, simulation, decision support systems, and new services oriented architectures to include applications, databases and communications configuration. This non-acquisition category program provides funds for continued R&D for broader application of advanced training technologies and the science of learning to transition successful research proof of concept demonstrations and rapid prototyping of Commercial off the Shelf/Government off the Shelf (COTS/GOTS) technologies into operational use.

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	10.759	12.992	8.758	-	8.758
Current President's Budget	10.098	12.992	7.348	-	7.348
Total Adjustments	-0.661	-	-1.410	-	-1.410
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-0.233	-			
SBIR/STTR Transfer	-0.360	-			
Program Adjustments	-	-	-1.410	-	-1.410
Rate/Misc Adjustments	-	-	-	-	-
 Congressional General Reductions 	-0.068	-	-	-	-
Adjustments					

Change Summary Explanation

Technical: Not applicable.

Navy

PE 0604703N: Personnel, Trng, Sim, & Human Factors

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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	
1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)	PE 0604703N: Personnel, Trng, Sim, & Human Factors	
Schedule: Not applicable.	·	

PE 0604703N: Personnel, Trng, Sim, & Human Factors Navy

Exhibit R-2A, RDT&E Project Jus	tification: PE	3 2013 Navy							DATE: Febr	uary 2012	
APPROPRIATION/BUDGET ACTI 1319: Research, Development, Tes BA 5: Development & Demonstration	t & Evaluation	n, Navy			I OMENCLAT 3N: <i>Personn</i>		n, & Human	PROJECT 1822: Manp	oower Pers 8	k Human Fac	at System
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
1822: Manpower Pers & Human Fact System	10.098	12.992	7.348	-	7.348	7.514	7.669	7.793	7.926	Continuing	Continuing

A. Mission Description and Budget Item Justification

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R Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

0

0

Quantity of RDT&E Articles

L1822/Manpower, Personnel, Training, Sim, and Human Factors. This non-acquisition category program provides funds for continued R&D for broader application of advanced technologies to transition successful 6.3 research proof-of-concept demonstrations into operational use. Development of prototype systems to support and/or improve operational requirements of manpower and personnel sponsors is the primary goal of this Engineering Development Program. The 6.5 R&D Program features the use of a broad range of technologies from cognitive science and ability testing techniques, mathematical modeling and optimization, statistical and econometric forecasting, intelligent systems, data visualization, data mining, simulation, decision support systems, and new database and communications configuration.

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0

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EV 2044

0

EV 2042

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2011	FY 2012	FY 2013
Title: Manpower Pers & Human Fact System	10.098	12.992	7.348
Articles:	11	9	6
Description: This program is funded under RDT&E operational systems development because it encompasses engineering and development of new end-items prior to production approval decision and the upgrading and enhancement of existing MPTE decision support systems, tools and models.			
FY 2011 Accomplishments: Continued transitioning of Future Naval Warfighter Capabilities (FNWC) Capable Manpower products. Continued transitioning of Integrated System for Language Education and Training (ISLET). Completed transitioning of Virtual Environment for Ship and Shore Experiential Learning (VESSEL). Continued Training and Supply Chain Management Decision Support Systems integration and transition. Continued Improved Manpower and Personnel Integration Tool. Continued transition of Future Naval Warfighter Capabilities (FNWC) Capable Manpower (CM) Refresh of early prototypes. Continued development of Training Capacity Tradeoff Model. Continued enhancement of products delivered via World Class Modeling. Continued transitioning of DARPA Digital Tutor to Center for Information Dominance for IT Training. Transitioned RIDE/JOIN into PRIDE MOD.			

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy		DATE: Fe	bruary 2012	
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604703N: Personnel, Trng, Sim, & Human Factors	PROJECT 1822: Manpower Pers	s & Human Fa	act System
B. Accomplishments/Planned Programs (\$ in Millions, Article - Small Business Innovative Research (SBIR).	e Quantities in Each)	FY 2011	FY 2012	FY 2013
FY 2012 Plans: - Complete transitioning of Future Naval Warfighter Capabilities (Complete transition of Integrated System for Language Education Continue Training and Supply Chain Management Decision Such Continue Improved Manpower and Personnel Integration Tool. - Continue transition of Future Naval Warfighter Capabilities (FN') - Continue development of Training Capacity Tradeoff Model. - Continue enhancement of products delivered via World Class (Complete transition of DARPA Digital Tutor to Center for Information). - Small Business Innovative Research (SBIR).	on and Training (ISLET). pport Systems integration and transition. WC) Capable Manpower (CM) Refresh of early prototype Modeling.	S.		
 FY 2013 Plans: Continue Training and Supply Chain Management Decision Su Continue Improved Manpower and Personnel Integration Tool. Continue transition of Future Naval Warfighter Capabilities (FN' Continue development of Training Capacity Tradeoff Model. Continue enhancement of products delivered via World Class Name 	WC) Capable Manpower (CM) Refresh of early prototype	s.		

C. Other Program Funding Summary (\$ in Millions)

Small Business Innovative Research (SBIR).

N/A

D. Acquisition Strategy

N/A

Navy

E. Performance Metrics

This PE provides funding to support the transition of models and decision support tools from RDT&E funded research, Science and Technology (6.2-6.3), to production and into the hands of analysts and program managers throughout the Manpower, Personnel, Training and Education enterprise. The PE also supports the application of proven industry models, tools and methodologies to Navy MPTE problems where GOTS solutions are non-existent. One goal of this PE is to transition 90% of successful S&T products to products to products and eventual use within the Navy. An acceptable metric will be to successfully transition 80% of the products. The second goal of the PE is to successfully implement 90% of the industry-standard tools that are attempted to be used in Navy applications.

PE 0604703N: Personnel, Trng, Sim, & Human Factors

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10.098

12.992

7.348

Accomplishments/Planned Programs Subtotals

DATE: February 2012 Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT 1319: Research, Development, Test & Evaluation, Navy PE 0604703N: Personnel, Trng, Sim, & Human | 1822: Manpower Pers & Human Fact System

BA 5: Development & Demonstration (SDD)

Factors

Product Development (\$ in Millio	ns)		FY 2	2012		2013 ise	FY 2	2013 CO	FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Software Development	C/IDIQ	Acuitus:Palo Alto, CA	4.800	-	Mar 2012	-		-		-	0.000	4.800	
		Subtotal	4.800	-		-		-		-	0.000	4.800	

Support (\$ in Millions)				FY 2	2012		2013 se		2013 CO	FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Development Support	Allot	NPRST:Millington, TN	2.200	1.650	Mar 2012	1.650	Mar 2013	-		1.650	Continuing	Continuing	Continuing
Development Support	Allot	CNP:Washington, DC	3.098	9.932	Mar 2012	5.698	Mar 2013	-		5.698	Continuing	Continuing	Continuing
Development Support	Allot	PMW-240:Various	-	1.410	Mar 2012	-		-		-	0.000	1.410	
		Subtotal	5.298	12.992		7.348		-		7.348			

	Total Prior							-			Target
	Years			FY 2	013	FY 2	2013	FY 2013	Cost To		Value of
	Cost	FY 2	2012	Ва	se	0	co	Total	Complete	Total Cost	Contract
Project Cost Totals	10.098	12.992		7.348		-		7.348			

Remarks

PE 0604703N: Personnel, Trng, Sim, & Human Factors Navy

Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
1319: Research, Development, Test & Evaluation, Navy	PE 0604703N: Personnel, Trng, Sim, & Human	1822: Manpower Pers & Human Fact System
BA 5: Development & Demonstration (SDD)	Factors	

PE 0604703N: Personnel, Trng, Sim, & Human Factors Navy

Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy

DATE: February 2012

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

1319: Research, Development, Test & Evaluation, Navy

PE 0604703N: Personnel, Trng, Sim, & Human | 1822: Manpower Pers & Human Fact System

BA 5: Development & Demonstration (SDD) Factors

Schedule Details

	Sta	art	End		
Events by Sub Project	Quarter	Year	Quarter	Year	
Proj 1822					
Future Naval Warfighter Capabilities (FNWC) Capable Manpower Products: Future Naval Warfighter Capabilities (FNWC) Capable Manpower Products	3	2011	4	2012	
Future Naval Warfighter Capabilities (FNWC) Capable Manpower Products: FNWC 1	3	2011	3	2011	
Future Naval Warfighter Capabilities (FNWC) Capable Manpower Products: FNWC 2	4	2011	4	2011	
Future Naval Warfighter Capabilities (FNWC) Capable Manpower Products: FNWC 3	3	2012	3	2012	
Future Naval Warfighter Capabilities (FNWC) Capable Manpower Products: FNWC4	4	2012	4	2012	
Integrated System for Language Education and Training (ISLET): Integrated System for Language Education and Training (ISLET)	4	2011	4	2012	
Integrated System for Language Education and Training (ISLET): ISLET 1	4	2011	4	2011	
Integrated System for Language Education and Training (ISLET): ISLET 2	3	2012	3	2012	
Integrated System for Language Education and Training (ISLET): ISLET 3	4	2012	4	2012	
Virtual Environment for Ship and Shore Experiential Learning (VESSEL): Virtual Environment for Ship and Shore Experiential Learning (VESSEL)	1	2011	4	2011	
Virtual Environment for Ship and Shore Experiential Learning (VESSEL): VESSEL	4	2011	4	2011	
Training/Supply Chain Mgmt Decision Support Systems Integration/Transition: Training/Supply Chain Mgmt Decision Support Systems Integration/Transition	2	2011	4	2017	
Training/Supply Chain Mgmt Decision Support Systems Integration/Transition: T/SCMDS I	2	2011	2	2011	
Training/Supply Chain Mgmt Decision Support Systems Integration/Transition: T/SCMDS 2	4	2011	4	2011	
Training/Supply Chain Mgmt Decision Support Systems Integration/Transition: T/SCMDS 3	2	2012	2	2012	

Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604703N: Personnel, Trng, Sim, & Human | 1822: Manpower Pers & Human Fact System

Factors

DATE: February 2012

PROJECT

	Sta	art	End		
Events by Sub Project	Quarter	Year	Quarter	Year	
Training/Supply Chain Mgmt Decision Support Systems Integration/Transition: T/SCMDS 4	4	2012	4	2012	
Training/Supply Chain Mgmt Decision Support Systems Integration/Transition: T/ SCMDS 5	2	2013	2	2013	
Training/Supply Chain Mgmt Decision Support Systems Integration/Transition: T/SCMDS 6	4	2013	4	2013	
Training/Supply Chain Mgmt Decision Support Systems Integration/Transition: T/SCMDS 7	2	2014	2	2014	
Fraining/Supply Chain Mgmt Decision Support Systems Integration/Transition: T/	4	2014	4	2014	
Fraining/Supply Chain Mgmt Decision Support Systems Integration/Transition: T/SCMDS 9	2	2015	2	2015	
Training/Supply Chain Mgmt Decision Support Systems Integration/Transition: T/SCMDS 10	4	2015	4	2015	
Training/Supply Chain Mgmt Decision Support Systems Integration/Transition: T/SCMDS I1	2	2016	2	2016	
Training/Supply Chain Mgmt Decision Support Systems Integration/Transition: T/ SCMDS I2	4	2016	4	2016	
Training/Supply Chain Mgmt Decision Support Systems Integration/Transition: T/SCMDS I3	2	2017	2	2017	
Training/Supply Chain Mgmt Decision Support Systems Integration/Transition: T/SCMDS I4	4	2017	4	2017	
mproved Manpower and Personnel Integration Tool: Improved Manpower and Personnel Integration Tool	3	2011	4	2016	
mproved Manpower and Personnel Integration Tool: IMPI 1	3	2011	3	2011	
mproved Manpower and Personnel Integration Tool: IMPI 2	4	2011	4	2011	
mproved Manpower and Personnel Integration Tool: IMPI 3	3	2012	3	2012	
Improved Manpower and Personnel Integration Tool: IMPI 4	4	2012	4	2012	

PE 0604703N: Personnel, Trng, Sim, & Human Factors Navy

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604703N: Personnel, Trng, Sim, & Human | 1822: Manpower Pers & Human Fact System

Factors

DATE: February 2012

PROJECT

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Improved Manpower and Personnel Integration Tool: IMPI 5	3	2013	3	2013
Improved Manpower and Personnel Integration Tool: IMPI 6	4	2013	4	2013
Improved Manpower and Personnel Integration Tool: IMPI 7	3	2014	3	2014
Improved Manpower and Personnel Integration Tool: IMPI 8	4	2014	4	2014
Improved Manpower and Personnel Integration Tool: IMPI 9	3	2015	3	2015
Improved Manpower and Personnel Integration Tool: IMPI 10	4	2015	4	2015
Improved Manpower and Personnel Integration Tool: IMPI 11	3	2016	3	2016
Improved Manpower and Personnel Integration Tool: IMPI 12	4	2016	4	2016
FNWC CM Refresh Early Prototypes: FNWC CM Refresh Early Prototypes	1	2011	4	2017
FNWC CM Refresh Early Prototypes: FNWC CM 1	1	2011	1	2011
FNWC CM Refresh Early Prototypes: FNWC CM 2	3	2011	3	2011
FNWC CM Refresh Early Prototypes: FNWC CM 3	4	2011	4	2011
FNWC CM Refresh Early Prototypes: FNWC CM 4	2	2012	2	2012
FNWC CM Refresh Early Prototypes: FNWC CM 5	4	2012	4	2012
FNWC CM Refresh Early Prototypes: FNWC CM 6	2	2013	2	2013
FNWC CM Refresh Early Prototypes: FNWC CM 7	4	2013	4	2013
FNWC CM Refresh Early Prototypes: FNWC CM 8	2	2014	2	2014
FNWC CM Refresh Early Prototypes: FNWC CM 9	4	2014	4	2014
FNWC CM Refresh Early Prototypes: FNWC CM 10	2	2015	2	2015
FNWC CM Refresh Early Prototypes: FNWC CM 11	4	2015	4	2015
FNWC CM Refresh Early Prototypes: FNWC CM 12	2	2016	2	2016
FNWC CM Refresh Early Prototypes: FNWC CM 13	4	2016	4	2016
FNWC CM Refresh Early Prototypes: FNWC CM 14	2	2017	2	2017
FNWC CM Refresh Early Prototypes: FNWC CM 15	4	2017	4	2017
Training Capacity Tradeoff Model: Training Capacity Tradeoff Model	2	2011	4	2017

PE 0604703N: Personnel, Trng, Sim, & Human Factors Navy

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604703N: Personnel, Trng, Sim, & Human | 1822: Manpower Pers & Human Fact System

Factors

DATE: February 2012

PROJECT

Events by Sub Project	Sta	Start		End	
	Quarter	Year	Quarter	Year	
Training Capacity Tradeoff Model: TCTM 1	2	2011	2	2011	
Training Capacity Tradeoff Model: TCTM 2	4	2011	4	2011	
Training Capacity Tradeoff Model: TCTM 3	2	2012	2	2012	
Training Capacity Tradeoff Model: TCTM 4	4	2012	4	2012	
Training Capacity Tradeoff Model: TCTM 6	2	2013	2	2013	
Training Capacity Tradeoff Model: TCTM 7	4	2013	4	2013	
Training Capacity Tradeoff Model: TCTM 8	2	2014	2	2014	
Training Capacity Tradeoff Model: TCTM 9	4	2014	4	2014	
Training Capacity Tradeoff Model: TCTM 10	2	2015	2	2015	
Training Capacity Tradeoff Model: TCTM 11	4	2015	4	2015	
Training Capacity Tradeoff Model: TCTM 12	2	2016	2	2016	
Training Capacity Tradeoff Model: TCTM 13	4	2016	4	2016	
Training Capacity Tradeoff Model: TCTM 14	2	2017	2	2017	
Training Capacity Tradeoff Model: TCTM 15	4	2017	4	2017	
WCM Enhancements: WCM Enhancements	2	2011	4	2017	
WCM Enhancements: WCM 1	2	2011	2	2011	
WCM Enhancements: WCM 2	4	2011	4	2011	
WCM Enhancements: WCM 3	2	2012	2	2012	
WCM Enhancements: WCM 4	4	2012	4	2012	
WCM Enhancements: WCM 5	2	2013	2	2013	
WCM Enhancements: WCM 6	4	2013	4	2013	
WCM Enhancements: WCM 7	2	2014	2	2014	
WCM Enhancements: WCM 8	4	2014	4	2014	
WCM Enhancements: WCM9	2	2015	2	2015	
WCM Enhancements: WCM 10	4	2015	4	2015	

PE 0604703N: Personnel, Trng, Sim, & Human Factors Navy

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy

R-1 ITEM NOMENCLATURE

DATE: February 2012

APPROPRIATION/BUDGET ACTIVITY

PROJECT

1319: Research, Development, Test & Evaluation, Navy

PE 0604703N: Personnel, Trng, Sim, & Human 1822: Manpower Pers & Human Fact System

BA 5: Development & Demonstration (SDD)

Factors

	Start		End	
Events by Sub Project	Quarter	Year	Quarter	Year
WCM Enhancements: WCM 11	2	2016	2	2016
WCM Enhancements: WCM 12	4	2016	4	2016
WCM Enhancements: WCM 13	2	2017	2	2017
WCM Enhancements: WCM 14	4	2017	4	2017
DARPA Digital Tutor: DARPA Digital Tutor	4	2011	4	2012
DARPA Digital Tutor: DARPA 1	4	2011	4	2011
DARPA Digital Tutor: DARPA 2	2	2012	2	2012
DARPA Digital Tutor: DARPA 3	4	2012	4	2012
Transition of RIDE into PRIDE MOD: Transition of RIDE into PRIDE MOD	1	2011	4	2011
Transition of RIDE into PRIDE MOD: PRIDE	4	2011	4	2011
Global Force Mgmt Data Initiative: Global Force Mgmt Data Initiative	2	2011	2	2012
Global Force Mgmt Data Initiative: GFMDI 1	2	2011	2	2011
Global Force Mgmt Data Initiative: GFMDI 2	4	2011	4	2011
Global Force Mgmt Data Initiative: GFMDI 3	2	2012	2	2012
Global Force Mgmt Data Initiative: GFMDI 4	4	2012	4	2012